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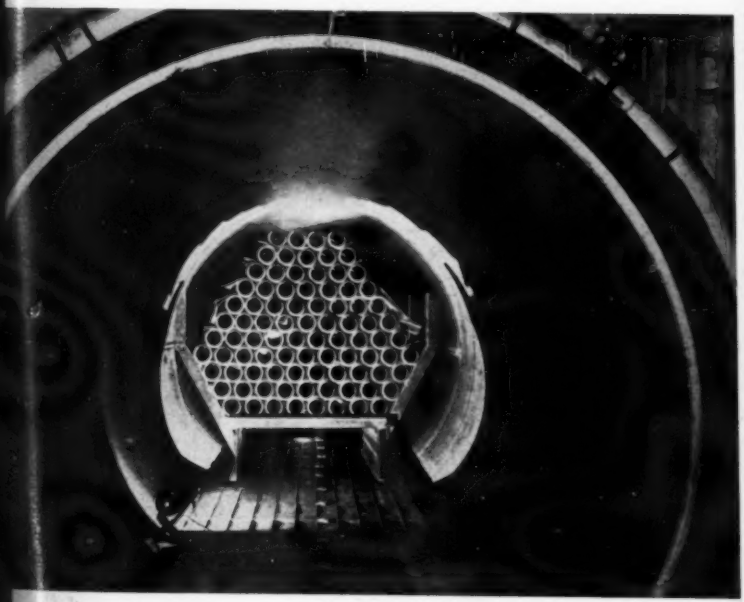

NOVEMBER 1951

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Estate of C. J. STOVER, *Proprietor*

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THANKSGIVING--The Truly American Holiday

On November 22nd, we, with a million other Americans, will celebrate Thanksgiving.

This celebration was instituted, as all Americans know, by the earlier settlers of New England, because they had such bountiful harvests that they went to church to give thanks and afterwards had in their homes such feasts as we at this date can only imagine. Wild turkeys were plentiful and therefore it has come down to us as a tradition that Turkey is the main dish of the Thanksgiving Feast.

Today most of our churches are open for service on Thanksgiving altho a great many of the residents of these United States may consider football as one of the important pasttimes for the day.

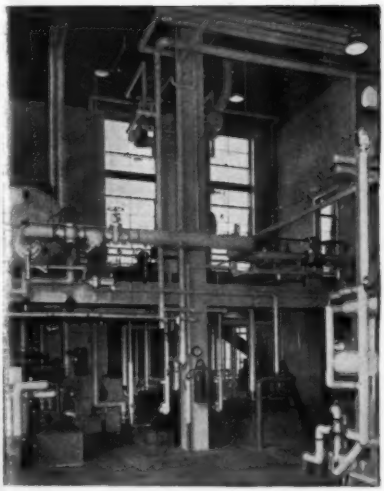
While Thanksgiving may vie with the Fourth of July as the most important American Holiday, Thanksgiving with its religious background is, to our way of thinking, more typical of the truly American spirit.

END OF AN ERA

Some weeks ago we attended the fall meeting of the Antique Automobile Club of America at the grounds of the Devon Horse Show, just outside Philadelphia. It is seldom we have felt that a Saturday afternoon was so profitably spent.

We saw, not only some most interesting examples of mechanical ingenuity but in a living, moving way we saw, in the space of a few hours, the complete history of an era covering just over fifty years. In the 1898 Autocar (strictly a horseless buggy) we saw the beginning of an industry which has had the most profound influence on all our lives. In later models bearing names long forgotten or, like Oldsmobile, Buick, Ford and Cadillac, still carried by cars of today, we could see the changes which over the years, have resulted in the automobile as we know it.

We could not help but think, as we watched the record of history in the making, of the trials and tribula-



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tions of the early automobile builders. They were an ingenious, daring crew, you may be sure. And their product, down thru the years, has affected the American way of life probably more than any other single invention. The direct effect has been to make of us a "nation on wheels", the only country in the world where a four wheeled, powered vehicle is practically a necessity rather than a luxury. The indirect effects are even more far reaching for to the automotive industry we owe so much of our progress in metallurgy, precision machine and press work and mass production techniques that even the rare American who has never ridden in one has had his entire mode of life affected by the automobile.

We also thought, with great regret, that we shall probably never again see an era of such great progress achieved by individuals who were *individualists* operating under the closest approach to a "free economy" the world has ever seen.

We believe that from a purely technological standpoint the development of the atomic bomb, under government aegis, was possibly the greatest achievement of our time. The harnessing of atomic energy, if accomplished in a few years, may well rank second. But these conquests leave us with nothing but fear and foreboding for our future.

It seems obvious that because of the awful potential of atomic energy it must for many years, if not forever, remain the property of the state. The more important atomic energy becomes the more must its beneficiaries become dependent upon, and subservient to, the state.

We have seen predictions that, no matter what happens, this country is now practically certain to be living under a regimented economy for at least twenty years. If atomic energy comes to play a more and more important part in our every day lives there is no question that, unless human nature changes completely, the period of regimentation will continue indefinitely.

So it was with more than a little nostalgia that we viewed these old cars. To us they were symbols of a time

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when Americans were free, free to dream, free to create, free to enjoy the full fruits of their creations. They were symbols of an era and a way of life we have probably lost forever.

DIFFICULTY IN FORECASTING BUSINESS TRENDS

*Guest Editorial by Herbert Abraham**

The unsettled condition of the U. S. economy makes it very difficult to do much in the way of forecasting business trends. What is only a rumor today may become a government regulation tomorrow—and sharp overnight adjustments in allocations of materials for defense planning are apt to continue for quite some time to come. And to make the problem of determining business trends more uncertain during the next six months, we have an election year just around the corner.

It is more reassuring to contemplate the building material business from a long range viewpoint—say from three to five years ahead. Such factors as population increase, for example, can be fairly well judged, since the stork is no respector of politics or government regulations. Based on the 21 million population increase during the 1940's, it may be reasonably expected that, in order to keep up with the new families that will become housing customers, the building business will remain quite active during this present decade. The money to pay for this housing should be readily available from a national gross income zooming toward a third of a trillion dollars in 1955.

In repairs and maintenance we are actually falling farther behind every year—and the picture of this important half of the building business never looked brighter. This also applies to the farm market—where there will be more dollars spent for building materials as farms begin to reach the saturation point in consumption of mechanical equipment.

So if you have any doubts about the present and more or-less immediate future, I would suggest that you turn your calendar ahead to remind yourself that the business

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ASBESTOS IN YUGOSLAVIA

The June 1951 issue of Mineral Trade Notes, just received, contains the following paragraph which may interest some of our readers:

According to the press late in 1950, development of the asbestos industry was making it possible to eliminate imports of asbestos products. The "Jugoasbest" factory at Mladenovac, the largest of its kind in Yugoslavia, produces a variety of asbestos products. At Umka, near Belgrade, another asbestos factory is turning out a variety of articles. The press expressed the opinion that soon Yugoslavia might become an exporter of asbestos products that would give "serious competition" to present asbestos-exporting countries. Early in 1951 the press also reported that new deposits of minerals discovered recently in various places in Macedonia include asbestos. Later reports were that new deposits had been located at Petrovo Selo in Bosnia and at Bogoslavis in Macedonia, where processing plants were being built, and also at various places in Serbia, including Vrnjacka Banka.

. . . —

¶ You will find most interesting the article The "QUINTERRAS" which appears in this number, and it might be interesting to read in connection with this the article on page 16 of our November 1948 number, "Johns-Manville's Newest Plant" (at Tilton, N. H.), where they make "QUINTERRA."

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THE "QUINTERRAS"

The "QUINTERRA" Electrical materials are made by Johns-Manville Corporation and "QUINTERRA" is one of the latest developments in asbestos products. Read the article on page 12 of our August 1948 number and that on page 6 of our September 1951 number on "QUINTERRA" Type 3. The following article gives rather full information on the full "QUINTERRA" line.

It is now roughly four years since Johns-Manville introduced their "QUINTERRA" Electrical Insulations. Four years is too short a time, of course, to explore all the possibilities that this family of asbestos insulations have to offer. However, experience to date shows that the "QUINTERRAS" are helping to lift design and production restrictions that have plagued the electrical equipment industry.

Before the development of the "QUINTERRAS" the breakdown of insulation due to heat had been a limiting factor in design and a major cause of electrical equipment failures. If an insulation was thin and flexible it was usually an organic insulation with a low rating so that many layers or wrappings had to be used. This defeated the desire for a more compact design. If the designer turned to inorganic insulations with a higher rating he had to settle for rigid materials that were not suitable for many applications.

Obviously, the ideal would be an insulation that would have thinness and flexibility plus high dielectric strength and heat stability. With this in mind the men at the Johns-Manville Research Center started to work on the "QUINTERRA" project some ten years ago. The result of this work was "QUINTERRA" Type 1, the basic material from which the other "QUINTERRAS" stem.

"QUINTERRA" Type 1 varies in thickness from a tissue thin 2.6 mils up to 8.1 mils. Yet, this thin and flexible insulation has high dielectric strength—above 250 VPM at room temperature and this dielectric strength actually increases up to 300 V P M as temperatures increase. And, it has high heat stability. Being 100% asbestos it is

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incombustible and at temperatures as high as 400 C. it will not disintegrate. Even at higher temperatures it will not carbonize and become a mere spacer. It may become brittle but, even so, it retains its dielectric.

From this basic asbestos sheet have since come "QUINTERRA" Type 5, treated with polyvinyl acetate, "QUINTERRA" Type 6, two sheets of Type 5 bonded together and, silicone-treated "QUINTERRA" Type No. 3.

Altho the physical and electrical properties of these vary there are common points that seem to run consistently thru the reports from manufacturers who have turned

"QUINTERRA" Type 5 being applied over a finished transformer winding, also showing the edges of other inter-layer wrappings of "QUINTERRA" used thruout the winding.

to "QUINTERRA." Almost every report mentions how "QUINTERRA" saves space, reduces weight and cuts down on quantity of insulation needed. Also, the same reports invariably say that performance is better than before.

The first of the treated "QUINTERRAS" to be introduced was "QUINTERRA" Type 5. It is better than a Class B insulation, as defined by A. I. E. E. standards, since it can be

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used for service at temperatures above the 130 C., Class "B" limit. Even when the polyvinyl acetate saturant is baked out by temperatures above 150 C. the "QUINTERRA" Type 5 retains its inherent dielectric strength. This is quite a contrast to materials commonly found in the Class B group. Most of them lose their insulating value when their saturant is destroyed.

One of the first to use "QUINTERRA" Type 5 was a manufacturer of air cooled transformers who makes units varying in size from 1 KVA up to 2000 KVA and voltages to 13,800 volts.

This company has completely converted to 9 mil "QUINTERRA" for layer insulation, for the insulation of taps and as wrapper and ground insulation. In these applications they formerly used such materials as varnished glass, commercial asbestos papers and flexible sheet mica. Since converting to "QUINTERRA" Type 5 they report that their products are more uniform in size, their production rate has improved, complaints are negligible compared to what was considered normal and, since the thickness of insulation has been reduced, they need less material and this has reduced their costs. In certain sizes of transformers the reduction on amount of insulation needed has amounted to a 20% savings.

Another early user of "QUINTERRA" Type 5 was a manufacturer of toy electrical trains. In this case space saving was of special value since smallness is an important selling feature to a toy company. They use Type 5 as insulation between the primary and secondary windings of their small transformers and now need only 2 turns of 6 mil "QUINTERRA" compared to several turns of the 10 mil material formerly used.

About a year after the introduction of Type 5, the "QUINTERRA" Type 6 became available. It is a two ply material formed by combining and calendering together two individual sheets of Type 5 and was developed to provide certain physical properties needed in some applications. These properties include a tensile strength of around 3000 pounds per square inch depending on thickness and a

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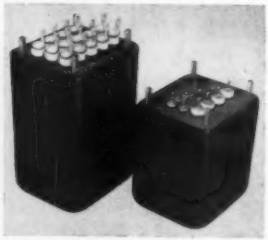
bursting strength of approximately 3½ pounds per mil of thickness.

One of the companies requesting this type of material was a New England manufacturer of resistors and potentiometers. The insulation this company had been using contained enough free iron to cause dielectric breakdowns. This had created a serious reject problem. "QUINTERRA," because of its exceptional purity could solve this problem of rejects, and, with "QUINTERRA" Type 6, the company had a material with the mechanical strength needed for their methods of application.

Their Chief Engineer in charge of quality control and inspections, reports that rejects are now practically non-existent. In addition, their rate of production has improved since they now use only one layer of insulation compared to the four layers formerly needed. This cuts out three steps in assembling. Also, the way is open for a more compact design. The insulation on a typical resistor had been measuring around 60 mils in thickness. The "QUINTERRA" Type 6 now used measures only 15 mils in total thickness.

Currently, the resistors and potentiometers made by the company, have an aluminum core which they insulate with one thickness of "QUINTERRA" Type 6. However, for their fixed resistors, they are now going into production on a new design that eliminates the metal core. Four endless tapes of 15 mil "QUINTERRA" ⅜" wide are led thru a guide and the resistance wire is wound directly around all four binding them together to act as a core. Segments



Showing the savings in space and materials made possible in similarly rated transformers by the use of "QUINTERRA" Type 3.

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are then cut and the terminals and leads are attached.

The third and newest of the "QUINTERRAS" is the silicone-treated "QUINTERRA" Type 3. This is a Class insulation for service at temperatures of 180 C. Actually, this "QUINTERRA" Type 3, like its relatives can frequently be used at much higher than rated temperatures without loss of essential dielectric strength. There are some Class H materials that have higher initial ratings but their strength drops off sharply under sustained high temperatures whereas the dielectric strength of "QUINTERRA" Type 3 remains almost constant. As a result, superfluous thickness to care for drop-off in strength is not needed.

A portable, sealed transformer developed for the Signal Corps illustrates some of the improvements that "QUINTERRA" Type 3 can lead to. Specifications called for Class H insulation. They also asked for compactness. By using silicone-treated "QUINTERRA" Type 3, the manufacturer was able to reduce the size by one-third. This size reduction was accompanied by a comparable reduction in weight, another improvement of obvious advantage in a portable piece of military equipment. The "QUINTERRA" was used as a layer insulation between coil windings. The rated output of this smaller model is the same as the rated output had been on the larger and heavier previous models. And, the silicone-treated "QUINTERRA" provides a more dependable factor of safety.

These "QUINTERRA" electrical insulations are produced at the Johns-Manville plant in Tilton, New Hampshire which was especially designed and built for this purpose. Most of the output is in the form of treated "QUINTERRAS," Type 5, 6, and 3, altho more and more of the basic "QUINTERRA" Type 1 is being asked for by other manufacturers of electrical insulation, who are combining "QUINTERRA" with materials such as mica and glass cloth for specific installations.

Also, there are some manufacturers who are finding valuable uses for the basic "QUINTERRA." In most of these applications mechanical strength is not a factor. One such case is a manufacturer of spark plugs who is using "QUINTERRA" Type 1 around the firing electrode of the spark

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plug. Here it serves a dual purpose as insulation and as a seal.

This firing electrode must be maintained in exact position, must be electrically insulated from the shell and must dissipate its heat efficiently to outside air or engine block. The bore must furthermore be made gas tight against compression losses. And all this is done by wrapping the shank of electrode with a band of "QUINTERRA" Type 1 and then ramming the electrode by hydraulic pressure down into the bore to an accurately calculated position. This compresses the "QUINTERRA," raises its heat conductivity, provides a constant seal with dielectric strength and permanently establishes the position of the electrode.

The examples of "QUINTERRA" uses we have just mentioned gave a quick idea of how and where these asbestos electrical insulations can be of benefit. And, there is one more benefit that will be of interest to the manufacturer of today. These "QUINTERRA" electrical insulations are made from the short fibres that are always more plentiful so, for the present at least, a manufacturer who converts to "QUINTERRA" will not be plagued by supply problems.

METALLIC CLAD ASBESTOS TEXTILES

In an effort to extend the upper temperature limits of serviceability of asbestos textile for certain uses, Dr. M. C. Shaw, Research Fellow, Asbestos Textile Institute, has been conducting an investigation on aluminum foil reflecting surface plied onto the surface of an asbestos textile. The reflectance properties of bright metallic surfaces have long been recognized and utilized in the field of insulation, but it is believed that the combination of an asbestos textile with a reflective medium will improve the insulating characteristics of such a construction and also permit the use of lower grade asbestos textiles where normally a high grade product would be required.

The work is now in the early stages of development and its full scope will not be known for some time. However, the work to date would indicate some interesting possibilities.

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THE CYPRESS GROVE

This story, while it does not concern asbestos, is centered around a man who has been in the asbestos business, off and on since 1884, but continuously since 1900, and is well known to many of our readers—Harry A. Dutton, of the Dutton Asbestos Company, now owned by Harry A. Dutton, Jr. (Mr. Dutton has just written us that he is temporarily out of the asbestos business and spends most of his time in Mexico.)

It appears that Mr. Dutton, when a young man worked in the Botanical laboratory of Stanford University, later becoming a noted botanist. That was in 1899. Dr. William Russell Dudley, a professor of botany at the University, brought into the laboratory a specimen of a cypress tree which he labeled as having been gathered "between the Butano and Pescodero Creeks". Mr. Dutton put a microscope to the specimen, properly labeled and filed it. Eventually the specimen was forgotten.

About 8 years ago, however, Dr. Carl B. Wolf of the Rancho Santa Ana Botanic Garden, Anaheim, made a scholarly study of the entire genus of cupressus, embodying the conclusion in a book entitled, "The New World Cypresses", covering both North and South America.

While preparing the work, Dr. Wolf visited nearly all the known cypress groves on the west coast, examined cypress material deposited in the various herbaria of the state. During the study he found the specimen sheet dated in 1899 by Dr. Dudley, and noted the location "between the Butano and Pescadero Creeks". After making several unsuccessful attempts to relocate this grove, Dr. Wolf wrote: "Thus after 40 years the exact location of the Butano cypresses remain unknown".

This presented a challenge to Mr. Dutton who resolved to find that grove. Last fall he made a preliminary search, and a few weeks ago he did more searching, found the spot with James Allen, of the San Mateo Forestry Department. Then he organized a full-scale expedition consisting of Dr. Rimo Bachigalupi of the Jepson Herbarium, University of California; Dr. Nathan A. Bowers, author of "Cone Bearing Trees of the Pacific Coast";

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Calvin McMillen, special student of cypresses, and Mrs. McMillen of Berkeley; James Allen; Dr. Herbert Mason, curator of the Botanical Herbarium at the University of California; Lawrence Heckard, Berkeley; and Mr. Dutton.

The first cypress tree they encountered stood in isolated glory and measured 70 inches in circumference and 80 feet high. The grove consists of eight to ten acres, surrounded by red-woods and Douglas firs.

The engineer of the party, Dr. Bowers, locates the grove as being on the common corners of sections 12, 11, 13 and 14, Range 4, west, Mt. Diablo Base and Meridian, San Mateo County, California.

BUILDING

The downtrend in dollar volume of construction contracts awarded in the 37 states east of the Rockies, first evidenced in F. W. Dodge Corporation's August figures, continued its pattern during September.

The predicted over-all drop due to defense limitations on the building field showed itself in the September award total of $1,082,855,000 which was a decrease of 14 per cent from August and a drop of 16 per cent from September 1950.

Meanwhile the 9-month 1951 total of awards reached $12,533,605,000 or 13 per cent more than the comparable 1950 figure, and moved the year's huge total closer to last year's standing peak total of $14.5 billion.

Nine-month totals in 1951 compared with nine-months of 1950 were as follows: Non-residential, $5,483,598,000, up 43 per cent; residential, $4,919,153,000, down 6 per cent; public and private works and utilities, $2,130,855,000 up 4 per cent.

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MARKET CONDITIONS

GENERAL BUSINESS.

The outstanding fact in general business is the high price of everything, both raw material and manufactured goods, and the chief contributing cause to all high prices is labor. When will labor cease demanding more and *more* and *more*?—Only then will the spiral stop.

ASBESTOS — RAW MATERIAL.

The lower grades are still short but the longer ones are in fair supply. The market situation in 1952 will probably parallel that in 1951.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. Asbestos Cloth is in heavy demand and all other asbestos textiles show an extremely strong market. Prices are firm all along the line but are definitely limited because of frozen selling prices combined with rising costs of asbestos fibre. It is likely that the Industry will not be in position to properly service the requirements for many months.

Brake Lining. Jobbers stocks are at a sensible level. In some spots sales are dropping off for the first time since 1946 but nationally they are still running high. "Scare" and emergency buying has caught up with most distributors and they are now leveling out stocks.

Asbestos Paper & Millboard. This business is back to normal requirements which is somewhat under "peak" requirements. Volume is holding well and should continue about the same for the balance of the year. The demand for *saturated paper* will probably start falling off this month due to weather and will resume again about the middle of March. During the winter months demand is likely to be considerably below production. The demand for Millboard has slowed up both for commercial and equipment requirements. The Industry should be able to hold present volume with no further decline for the balance of this year and the first half of 1952.

Insulation. High Pressure. This market is very active. In fact, there will exist a heavy call for all types of insulating materials, which will have little direct effect on factor

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre

DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

shipments because of the slowness of construction of defense plants. The use of insulating materials is directly comparable to the availability of steel for construction and mechanical equipment. An increase is expected in demand for the last quarter of 1951 and thru the first half of 1952.

Insulation. Low Pressure. The latter part of August showed an increasing trend to greater demand, mostly seasonal. Jobbers are still cautious with stocks and so long as manufacturers can make prompt spot shipments not much stock will be carried. Business can expect to be spotty but volume should hold up well in 1952 as compared with 1951.

Asbestos Cement Products. The big factor in the asbestos-cement products business, is activity from government spending agencies and, from all indications, this will be exceptionally strong for the balance of this year and in 1952. The market for asbestos siding and roofing shingles at present is fairly strong and has indications of remaining so for the balance of the year.

Flat sheets and corrugated asbestos-cement roofing and siding are strong and will probably continue into 1952. Flat sheet business has recently picked up considerably and is running far ahead of last year.

Demand has increased for pressure pipe and electrical conduit for military and defense plant construction with backlogs of orders remaining at high level. There is some lessening in the requirements for flue pipe and house sewers with backlogs gradually diminishing.

Asphalt Tile. This market continues strong and the outlook for 1952 is good.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

WANTED

Small used machinery to manufacture about 100 sheets of corrugated cement asbestos, size 3' x 7', per every 8 hrs. Offers: C. A. Posnansky, 250 Riverside Drive, New York City.

W. E. SINCLAIR, M.I.M.M.

Consulting Mining Engineer

Specialising in asbestos production in

South and East Africa and Rhodesia

P. O. BOX 1183, JOHANNESBURG, S. A.

Canada

(Department of Mines, Province of Quebec)

Tons — 2000 lbs.

Production for August 1951 ..... 77,782 tons
Compared with August 1950 ..... 70,621 tons

Dominion Production for August 1951 is 80,398 tons, a difference of 2,616 tons from the Quebec figure.

Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons — 2000 lbs.

Production for June 1951 ..... 6,453.24 tons
Valued at £471,920
Production for June 1950 ..... 6,440.86 tons
Valued at £421,693

Cyprus

(From Inspector of Mines)

	3rd Quarter 1951 Tons — 2000 lbs.		
	July	August	Sept.
Rock Mined	337,758	335,159	238,777
Rock Treated	96,634	88,616	67,079
Fibre Produced	2,998	3,412	3,009
Fibre Exported	2,887	3,550	2,908

AUTOMOBILE SALES

	September 1951
Passenger Cars	365,906
Motor Trucks	109,353
Motor Coaches	743
	476,002

In September 1950 a total of 722,843 motor vehicles were sold. In the nine months of 1951 the total was 5,407,886.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

IMPORTS AND EXPORTS

Imports into U. S. A.

(Figures by Bureau of Census)

	July 1951 Tons (2240 lbs.)
From Canada	47,461
S. Rhodesia	1,489
Union of S. Africa	2,485
Yugoslavia	15
	51,450
Valued at	$5,137,222
By Grades:	
Crude No. 1, Chrysotile, Canada	2
Crude No. 1, Chrysotile, U. of S. Africa	45
Crude No. 1, Chrysotile, S. Rhodesia	100
Crude No. 2, Chrysotile, Canada	3
Crude No. 2, Chrysotile, S. Rhodesia	153
Crude, Other, Chrysotile, Canada	89
Crude, Other, Chrysotile, U. of S. Africa	296
Crude, Other, Chrysotile, S. Rhodesia	671
Crude, Blue, U. of S. Africa	739
Crude, Blue, S. Rhodesia	565
Crude, Amosite, U. of S. Africa	1,379
Textile Fibres, Chrysotile, Canada	1,939
Textile Fibres, Chrysotile, Yugoslavia	15
Textile Fibres, Chrysotile, U. of S. Africa	26
Shingle Fibres, Chrysotile, Canada	7,892
Paper Fibres, Chrysotile, Canada	6,829
Other Fibres, Chrysotile, Canada	30,707
	51,450

Manufactured Asbestos Goods:

	July 1951 Quantity (lbs.)	Value
Asbestos Yarn		
Canada	33,396	$ 24,744
United Kingdom	66,053	39,742
Asbestos Packing—Fabric		
Canada	90	45
United Kingdom	837	583
Asbestos Packing—Not Fabric		
Canada	15	29
United Kingdom	1,518	912
Asbestos Woven Fabric—Other		

Manufactured Asbestos Goods:	July 1951 Quantity (lbs.)	Value
Canada	18,207	12,733
United Kingdom	11,917	8,647
France	124	76
Italy	140	125
Asbestos Brake Lining (Mld.)		
Canada	11	42
Mexico	9,446	3,033
United Kingdom	140	28
Italy	135	120
Asbestos Cement Products (Not Impreg)		
Canada	216,901	9,562
Mexico	814,987	50,653
Asbestos Cement Products (Impreg)		
Canada	1,382	220
Asbestos Manufactures—Others		
Canada	....	21
Cuba	....	1,569
	1,175,299	$152,884

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:	July 1950 Tons (2240 lbs.)	Value
To Central America & Mexico	80	$ 10,030
South America	740	222,082
Other Countries	324	47,857
	1,144	$279,969

In future the figure for "other countries" will be larger because the U. S. Bureau of Census has ceased reporting exports to countries where the value is under $10,000. Formerly they reported countries where the value ran over $500.

Manufactured Asbestos Goods:	July 195[illegible] Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	168,252	$ 24,905
Asbestos Textiles & Yarn	Lbs.	29,632	43,805
Asbestos Packing	Lbs.	161,482	154,469
Asbestos Brake Lng. (Mld.&S.Mld.)	Lbs.	640,246	582,097
Asbestos Brake Lng. (Woven)	Lin. Ft.	50,298	44,429
Asbestos Clutch Facings	No.	95,742	69,664
Asbestos Brake Blocks	Lbs.	83,985	54,161
Asbestos Construction Materials	Lbs.	1,986,888	180,013
Asbestos Manufactures—Other		....	78,855
			$1,232,398

ASBESTOS FIBRES
FRANK G. RUGGLES & CO.
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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos	July 1951 Tons (2000 lbs.)	Value
Crude		
United States	26	$ 16,589
United Kingdom	....	....
South America	....	....
Central America & Mexico	....	....
European Countries	14	9,850
Other Countries	....	....
	40	$ 26,439
Milled		
United States	16,157	$2,550,703
United Kingdom	2,316	402,465
South America	930	136,299
Central America & Mexico	460	66,626
European Countries	4,256	655,250
Other Countries	4,295	641,663
	28,414	$4,453,006
Shorts		
United States	36,046	$1,775,189
United Kingdom	2,701	103,522
South America	550	42,415
Central America & Mexico	130	8,264
European Countries	4,202	294,312
Other Countries	1,372	111,182
	45,001	$2,334,884
Grand Total—Unmanufactured Asbestos	73,455	$6,814,329
Manufactured Asbestos Goods:		
Brake Lining		$ 67,633
Packing		1,735
Other Materials		54,285
		$ 103,653

Imports of Asbestos by United Kingdom

Raw Material

	September 1951 Tons (2240 Lbs.)
From Union of South Africa	1,954
Southern Rhodesia	4,519
Bechuanaland, Basutoland & Swaziland	2,138
Canada	5,150

• BLUE ASBESTOS

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85% *Magnesia Insulation*

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United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

Raw Material	September 1951 Tons (2240 lbs.)
Other Commonwealth Countries and the Irish Republic	12
Foreign Countries	8
	13,781

Of this 13,781 tons, 12,233 were chrysotile, and 1,548 other varieties. These figures were supplied by the Mining Journal Limited of London.

AUTOMOBILE FACTS AND FIGURES - 31st Edition

This pamphlet, issued yearly, contains many statistics of interest to everyone, mostly illustrated by graphs, such as production of motor vehicles, registration in the United States, facts on taxes, etc. A copy of the book can be obtained by writing the Automobile Manufacturers Association, New Center Building, Detroit 2, Michigan.

A few of the percentages given are especially interesting.

92% of cars are used each week for work, shopping or both—73% for work and 53% for shopping.

27.5 million persons use passenger cars daily for earning a living.

48% of car trips are for purpose of driving to work.

575 million miles are driven daily in going to and from work or on business.

Women use cars: 24% of trips in driving to work, 28% of trips in shopping, and 48% for other purposes.

28.4% of adults living in households without cars nevertheless ride in cars every day. On an average day, out of 9.4 million such persons riding in a car, 3.7 million rode to work and 1.3 million obtained a ride for shopping.

The typical car on a winter day makes 3.9 trips, averaging 8.2 miles per trip, or a total of 32 miles per day carrying 1.8 persons.

66.5% of all households in U. S. own cars, while 70.6% of farm households own one or more cars.

Many of our readers may wish to obtain a copy of this interesting book.

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WAGE RATES FOR PIPE COVERERS

The wage rates being paid Asbestos Workers (pipe coverers) in the principal cities and insulation centers of the United States at the present time are given in the tabulation below. Comparison with the list in August 1950 "ASBESTOS" (page 26) will show the changes during the year.

These rates are taken from the October 1951 issue of The Asbestos Worker (Official Quarterly Journal of The International Association of Heat and Frost Insulators and Asbestos Workers) and are believed to be uptodate (as of Oct. 1951) and authentic.

Akron, Ohio	$2.62½
Albany, N. Y.	2.50
Albuquerque, N. M.	2.50
Allentown, Pa.	2.17½
+7½¢ W.F.	
Amarillo, Texas	2.61½
Anchorage, Alaska	3.50
Appleton, Wis.	2.20
Atlantic City, N. J.	2.67½
+7½¢ W.F.	
Atlanta, Ga.	2.50
Austin, Texas	2.50
Baltimore, Md.	2.62½*
+7½¢ W.F.	
Baton Rouge, La.	2.52½
Beaumont, Texas	2.66½*
Billings, Mont.	2.37½
Birmingham, Ala.	2.50
Boise, Idaho	2.25½
Borger, Texas	2.61½
Boston Naval Shipyard	1.83
Boston, Mass.	2.69½
+9¢ W.F.	
Bremerton, Puget Sound Navy Yard	1.97
Buffalo, N. Y.	2.65
Cedar Rapids, Iowa	2.47*
Charleston, W. Va.	2.62½*
Charleston, S. C. Navy Yard	1.74
Charleston, S. C. Except Navy Yard	2.50
Charlotte, N. C.	2.38*
Chicago, Ill.	2.60
+7½¢ W.F.	
Cincinnati, Ohio	2.55
Cleveland, Ohio	2.65
Columbia, S. C.	2.33¾
Columbus, Ohio	2.64½
Connecticut	2.56
Corpus Christie, Texas	2.50
Dayton, Ohio	2.61
Dallas, Texas	2.61½*
Denver, Colo.	2.47½
Des Moines, Iowa	2.47½*
Detroit, Mich.	2.70
+5¢ W.F.	
Duluth, Minn.	2.25
El Paso, Texas	2.50
Essex Co., N. J.	2.87½
+3% W.F.	
Evansville, Ind.	2.40
Fort Wayne, Ind.	2.35
Fort Worth, Texas	2.61½*
Freeport, Tex. (Dow Chem. Maintenance only)	2.19
Galveston, Texas	2.66½*
Grand Rapids, Mich.	2.50
Greensboro, N. C.	2.38*
Greenville, S. C.	2.33¾
Houston, Texas	2.66½*
Hudson Co., N. J.	2.87½
+3% W.F.	
Huntingdon, W. Va.	2.62½*
Indianapolis, Ind.	2.66½
Jackson, Mich.	2.50
Jackson, Miss.	2.52½
Jacksonville, Fla.	2.50
Kalamazoo, Mich.	2.50
Kansas City, Mo.	2.61
Knoxville, Tenn.	2.50
Lansing, Mich.	2.50
Laramie, Wyo.	2.47½
Lawrenceburg, Ind. (Distillery Plant Workers only)	2.24½
Little Rock, Ark.	2.50

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Long Beach, Cal. (Navy Yard)	1.97
Los Alamos, N. Mexico (Municipal Operations Maintenance only)	2.37½
Los Angeles, Cal.	2.75
+7½¢ W.F.	
Louisville, Ky.	2.60½*
Madison, Wis.	2.58
Manitowoc, Wis.	2.20
Mare Island Naval Shipyard, Vallejo, Cal.	2.00
Memphis, Tenn.	2.55
Miami, Fla.	2.50
Milwaukee, Wis.	2.58
Minneapolis, Minn.	2.55
Mobile, Ala.	2.50
Nashville, Tenn.	2.47½
New Orleans, La.	2.52½
Newport News, Va. (Except Navy Yard)	2.37½
New York City	3.00
+6% W.F.	
New York Naval Ship Yard	1.86
Norfolk, Va. Navy Yard	1.74
Norfolk, Va. (Except Navy Yard)	2.37½
Oak Ridge, Tenn. (Clinton Engr. Wks. Maintenance only)	2.03
Oklahoma City, Okla.	2.50
Oleum, Cal. (Union Oil Maintenance only)	2.58½
Omaha, Nebr.	2.53
Pascagoula, Miss.	2.50
Phila., Pa. Navy Yard	1.83
Phila., Pa.	2.67½
+7½¢ W.F.	
Phoenix, Ariz.	2.50
Pittsburgh, Pa.	2.87½
Port Arthur, Texas	2.66½*
Portland, Oregon	2.55
+10¢ W.F.	
Portsmouth, Va. (Except Navy Yard)	2.37½
Providence, R. I.	2.45
+9¢ W.F.	
Richmond, Va.	2.37½
Rochester, N. Y.	2.65
Sacramento, Cal.	2.58½
Saginaw, Mich.	2.50
Salt Lake City, Utah	2.40*
San Antonio, Texas	2.50
San Francisco, Cal.	2.58½
San Francisco, Cal. (Naval Shipyard)	2.00
Savannah, Ga.	2.50
Scranton, Pa.	2.30
+7½¢ W.F.	
Seattle, Wash.	2.55
Shreveport, La.	2.61½*
Sioux City, Iowa	2.37½
South Bend, Ind.	2.47½
Spokane, Wash.	2.50
Springfield, Mass.	2.56
Springfield, Mo.	2.37½
St. Louis, Mo.	2.83
St. Paul, Minn.	2.55
Syracuse, N. Y.	2.64
Tacoma, Wash.	2.55
Tampa, Fla.	2.40
Texas City, Tex. (Carbide Carbon Chem. Maintenance only)	2.34
Toledo, Ohio	2.77
Trenton, N. J.	2.67½
+7½¢ W.F.	
Tulsa, Okla.	2.61½*
Washington, D. C.	2.75
+10¢ W.F.	
Wausau, Wis.	2.20
White Plains, N. Y.	3.02½
Wichita, Kansas	2.47½*
Wilkes-Barre, Pa.	2.30
+7½¢ W.F.	
Wilmington, Del.	2.67½
+7½¢ W.F.	
Wood River, Ill. (Oil Refinery only)	2.22
York, Pa.	2.08
+7½¢ W.F.	
Youngstown, Ohio	2.62½

Note: W.F. means Welfare Fund.

* Negotiated—Pending approval of Construction Industr Stabilization Commission.

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NEWS OF THE INDUSTRY

BIRTHDAYS

A. J. Scanlan, President, American Asbestos Textile Corporation, Norristown, Pa., November 21.

J. A. Marcotte, General Sales Manager, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, November 22.

F. R. Anderson, Vice President, Sall Mountain Company, Hamilton, Ohio, November 24.

Alvin C. McCord, President, McCord Radiator & Mfg. Company, Detroit, Michigan, November 24.

John J. Krez, Chairman of Board, Paul J. Krez Company, Chicago Ill., November 26.

L. W. Dennis, Commercial Manager, The Cape Asbestos Company, Lt., London, England, November 27.

Thomas C. Young, President, Pacific Rfg. Company, Portland Oregon, November 28.

D. A. McMillan, Vice President, Gulf States Insulation Company, Mobile, Alabama, December 4.

Frank N. Grossman, Secretary, Arnold Insulations Inc., Chicago Ill., November 28.

E. T. Connell, President, Connell Asbestos Company, Brooklyn, N. Y., November 29.

R. E. Kramig, Senior Partner, R. E. Kramig & Company, Cincinnati, Ohio, November 29.

W. L. Spielberger, Director in Charge of Finances, Keasbey & Mattison Co., Ambler, Pa., November 30.

Frank G. Ruggles, President, Frank G. Ruggles & Company, 50 Church St., New York City, December 2.

Harvey D. Burgstresser, Philadelphia Asbestos Company, Philadelphia, Pa., December 3.

Irving Kevelson, Ace Asbestos Mfg. Company, Jersey City, N. J., December 4.

D. A. McMillan, Vice President, Gulf States Insulation Company, Mobile, Alabama, December 4.

K. H. Behre, Secretary, The Ruberoid Company, New York City, N. Y., December 5.

Victor Mauck, President, Nicolet Asbestos Mines, Norristown, Penna., December 6.

P. M. Berry, Secretary & Treasurer, Standard Asbestos Mfg. Company, Cleveland, Ohio, December 8.

E. J. Fasold, Secretary, Philip Carey Mfg. Company, Cincinnati, Ohio, December 8.

Kenneth MacLellan, Managing Director, George MacLellan & Company, Ltd., Glasgow, Scotland, December 8.

D. W. Widmayer, Vice President & Director in Charge of Sales, Keasbey & Mattison Company, Ambler, Pa., December 12.

John O. Camp, Vice President, Southern Friction Materials Company, Charlotte, N. C., December 13.

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George P. Grossman, President, Asbestos Products Company, Inc., Lakewood, Ohio, December 13.

Fred Lee Johnston, Supt., Southern Friction Materials Co., Charlotte, N. C., December 13.

Joseph Poulin, President & General Manager, Asbestonos Corporation, Ltd., Montreal, Canada, December 15.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

"TADIR" ISRAEL ASBESTOS WORKS LIMITED
Founded

"Tadir" Israel Asbestos Works Ltd., has been sponsored by the "ISRAEL-MIAMI GROUP", a joint American-Israeli financia group. This group has already started prominent activities i another field, with the "de luxe" DAN hotel of Tel Aviv, now i course of erection, to be followed by further large hotels i other towns. The Company's Board of Directors includes X. Feder mann and Ch. Aloni, both of Haifa, and Max Orovitz, San Friedland and I. L. Mintzer, all of Miami, Florida, U.S.A.

The new enterprise, a factory for the manufacture o Asbestos-Cement Pipes, will be erected on a large site in th industrial zone of Acre.

The factory will have two distinct plants, one for the makin of Pressure Pipes and the other for making socketed Soil Pipe (low pressure).

The pipes will have a standard length of 4 m, with diameters as small as 5 cm and as large as half a meter. The complete plant including a MAZZA Pipe making machine has been ordered and a delivery of machinery and equipment is expected within about six months.

The plant for making soil pipes, consisting of most modern Italian machines and equipment, has already arrived in Haifa. Stock's Engineering Company of Trieste has supplied this plant which follows the Magnani pipe making process.

The Soil Pipes are scheduled to appear on the market during the middle of 1952 and the Pressure Pipes towards the end of that year. Part of the output may be exported.

The capital already invested amounts to about One Million Dollars and it is estimated that the Company will have at its disposal for working capital another half million dollars.

A. Barac-Blitz, previously of the "Spalato" Portand Cement Cy. of Trieste has been appointed Commercial Manager of the new Company.

ASBESTONA CATALOG

Asbestcement-Industrie "Asbestona", N.V., of Amersfoort, Holland, have set us a copy of a very well prepared catalog of their asbestos-cement products. We shall be glad to keep this with other similar catalogs in our files.

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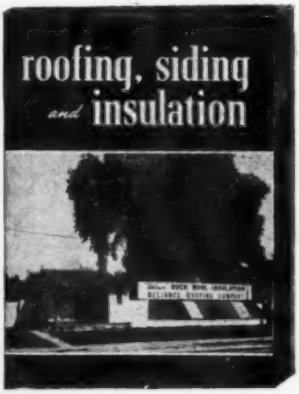

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AVILA, SANZ-AGERO & CIA
New Company for Making of Asbestos Cement Products

Industria del Asbesto-Cemento of Guatemala has formed a new company for the manufacture of Asbestos Cement products at San Salvador. They operate under Salvadorean capital The new plant is located at Apartado Postal No. 180, San Salvador, El Salvador, Central America, and will make corrugated and flat sheets as well as hand-moulded products.

ASBESTOS TEXTILE INSTITUTE
Elects Officers and Honors L. R. Hoff

The seventh anniversary meeting of the Asbestos Textile Institute was held at the Union League Club in New York on October 11, 1951. The meeting was made a special occasion at which recognition was extended to many honored guests including the founders of the Institute, officials of the member companies of the Institute and officials of Canadian asbestos mining companies. Honored guests who attended were A. R. Fisher, President, Johns-Manville Corp., L. R. Hoff, J. C. Kelleher, W. F. Wilkinson, Johns-Manville Corp., E. Muehleck, President, Keasbey & Mattison Co., E. R. Teubner, President, Philadelphia Asbestos Company, J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., O. H. Cilley, Raybestos-Manhattan, Inc., F. E. Schluter, President, Thermoid Co., N. C. Naylor, President, Union Asbestos & Rubber Co., O. C. Smith, President, Bell Asbestos Mines, Ltd., W. J. Johnson, Carl Bindman, Johnson's Corp., and F. Sims McGrath, Cadwalader, Wickersham & Taft.

During the course of the meeting R. E. Cryor, President of the Institute, reviewed the accomplishments of the organization since its founding in 1944 and the chairman of the several committees of the Institute reported upon the work and achievements of each committee during the past six years.

L. R. Hoff

One of the highlights of the meeting was the presentation of a gift to L. R. Hoff, Johns-Manville Corporation, in recognition of his outstanding service as one of the founders of the Institute and for his continued interest and participation in its progress and growth. In recognition of these efforts Mr. Hoff was presented with a golf bag and set of clubs, the bag carrying an appropriately inscribed plate setting forth the appreciative sentiments of the membership for his contributions to the Institute.

Mr. Hoff acted as Chairman of the latter portion of this meeting at which time each of the honored guests briefly addressed the group. The consensus of the views expressed were highly complimentary toward the services rendered by the

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Institute during its relatively short period of existence and served as an inspiration for the active members to continue to advance the purposes and principles of the organization which were originally established by the founders.

During the course of the meeting the following officers were elected to serve the Institute during 1952:

President ..... R. E. Cryor, Union Asbestos & Rubber Co.
Vice-President ..... G. S. Fabel, Southern Asbestos Co.
Treasurer ..... W. D. Widmayer, Keasbey & Mattison Co.
Secretary ..... M. C. Shaw, Rutgers University

RUBEROID'S 65TH ANNIVERSARY

On October 19th employees of all plants and offices of the Ruberoid Company thruout the country observed the company's 65th anniversary by paying special tribute to those who have been with the firm for many years.

The occasion is being marked by placing on bulletin boards in all Ruberoid plants and offices an honor roll of 324 employees who are members of the "Twenty-Fiver Club", composed of employees having continuous service records of 25 years or more. Among those on the honor roll are Peter H. Fischer at the Erie, Pa., plant; Ted S. Wilcox, Chicago offices, and Frederick Goble, South Bound Brook, N. J., plant, all of whom have a service record of more than 50 years.

In connection with the anniversary observance, an illustrated folder, entitled "Ruberoid Adventure Story", was distributed to all employees. The folder shows, in pictures, how Ruberoid's output has grown since 1886 from a single product, an asphalt paint, to a widely diversified line of asphalt and asbestos building and insulating materials. Mr. Herbert Abraham, president, in the foreword points out that the story of Ruberoid, like that of nearly every successful American industry, is, in a very real sense, an adventure story—a story of the American pioneering spirit in industry winning its way from small beginnings to large accomplishments.

RHODESIA MONTELEO ASBESTOS CO. FORMED

Rhodesia Monteleo Asbestos Co. was formed in July 1951, and recently obtained a quotation on the Johannesburg Stock Exchange. According to the South African Mining & Engineering Journal, the Company has holdings consisting of twelve blocks of mining claims in the Vukwe Hills about 15 miles southeast of Shabanie (Southern Rhodesia and extending over approximately 740 acres). We understand that two Aerofall Mills have been ordered. The authorized capital is 2,400,000 shares, 5s. each, of which 200,000 will be held in reserve. Rhodesia Monteleo Asbestos Co. is administered by New Monteleo Ltd. and Africa and European Investment Co. Ltd. are acting as technical advisers.

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RAYBESTOS MANHATTAN
Starts Wabash Division

The new Wabash Division of Raybestos-Manhattan has be gun operating. The plant contains 70,000 square feet of floo space and was constructed to manufacture sintered metal prc ducts for the military defense program. Two units have bee built on a 62-acre tract; a main building which contains th manufacturing facilities and administrative offices and a servic building which houses the power plant with boilers, compre sors, water softeners and an electric power center.

Production is currently being confined to sintered met clutch plates for tank transmissions to supplement capacit operations at the Raybestos Division, Stratford, Connecticu The company plans to expand the Wabash Division over a perio of years to include the manufacture of other sintered met products for automotive automatic transmissions, agricultur and industrial equipment, as well as some of its diversified pr ducts of asbestos and rubber—brake linings, fan belts, autom tive hose, industrial rubber products, mechanical packings, a bestos textiles, abrasive and diamond wheels and bowling bal

John H. Matthews, Vice President of Raybestos-Manhattan s Passaic plant, is in charge of the new division and Clarenc P. Schneider is factory manager. Mr. Schneider was formerl located at the Passaic plant, but has moved his headquarters t Crawfordsville, Indiana.

RICHARD A. FLINN ACCEPTS PROFESSORSHIP
At University of Michigan

Richard A. Flinn, assistant chief metallurgist in American Brake Shoe Company's Research and Development Center will accept an associate professorship of product engineering at the University of Michigan. He will also be in charge of the University's experimental foundry.

Mr. Flinn will leave American Brake Shoe near the end of 1951, but it is expected that he will retain connections with the company as a consultant.

A native of New York City, Mr. Flinn received his bache lors degree in chemical engineering from the College of the City of New York in 1936. He received his doctorate in physical metallurgy from the Massachusetts Institute of Technology in 1941.

During his employment with American Brake Shoe since 1941, Mr. Flinn has written many scientific papers, chiefly on the control of metal structures and their relation to castin properties and service life.

In 1944 he received the Howe medal of the American Societ for Metals and in 1947 the Peter L. Simpson Memorial Gol Medal for his technological contributions to the foundry industry

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MATTHEW J. FITZGERALD MADE TRUSTEE OF DePAUL UNIVERSITY

Matthew J. Fitzgerald, president of the Standard Asbestos Mfg. Company, has been named to the board of lay trustees of DePaul University.

Mr. Fitzgerald joins other leaders in Chicago industry, commerce, and the professions on the DePaul advisory board which was formed in 1946 to assist University administrators in program of planning and development.

An alumnus of DePaul, Mr. Fitzgerald began work as stenographer and office assistant at Standard Asbestos in 191 and was elected secretary-treasurer and director five years late He has been president and director since 1939.

He is a director of the Insulation Contractors Association of Chicago and vice president and director of the Standard Asbestos Mfg. Company of Cleveland. He serves also as chairman of the board for the Michigan Avenue National Bank of Chicago, and director of Catholic Charities of Chicago.

He is a member of the American Society of Heating and Ventilating Engineers, the Chicago Athletic Club, the Builders Club, the Executives Club, and the Bankers Club.

AMERICAN BRAKE SHOE CO.
9 Months Report

American Brake Shoe Company's sales and net earnings for the first nine months of 1951 were higher than for the same period of 1950. Earnings for the nine months period were $4,763,719, equal to $3.81 a common share compared with $3,848,367 and $3.27 a share for the nine months period of 1950. Third quarter earnings of $983,785 were equal to $.72 per common share compared with $1,318,567 and $1.13 for the same period last year.

Shipments for the nine months were $110,232,939 compared with $71,698,668 in the comparable 1950 period. Shipments in the third quarter were $32,639,217 an increase of $7,430,265 over the third quarter of 1950.

HERCULES FILTER CORPORATION AT EXPOSITION OF CHEMICAL INDUSTRIES

Hercules Filter Corporation will occupy Booth No. 443-445 at the 23rd Exposition of Chemical Industries to be held in Grand Central Palace, New York City from November 26th to December 1st, inclusive.

O'MALLEY BROTHERS MOVE

O'Malley Brothers of Chicago now have their office at 5 W. Randolph St., Room 514. They were formerly located at 1 N. Clinton Street. Their telephone number at the new addre is Frankiln 2-3553.

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JOHNS-MANVILLE
Third Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the third quarter of 1951 were $6,701,889, compared with $5,725,453 for the corresponding period last year, L. M. Cassidy, Chairman of the Board, reported on October 17, 1951.

Sales for the third quarter of 1951 were $58,040,337, compared with $55,299,162 for the third quarter of 1950.

Earnings per share of common stock were $2.12 for the third quarter, compared with $1.81 for the third quarter last year.

Income taxes (and excess profits taxes for 1951) for the third quarter were $5,077,163, compared with $5,011,303 last year.

For the year to date sales were $178,371,950, earnings were $19,294,927 and income and excess profits taxes were $19,568,000, compared with sales of $143,792,739, earnings of $15,826,140 and income taxes of $9,562,775 for the first nine months last year.

CANADIAN SPECIFICATIONS

The Canadian Specifications Board has recently added to its list of specifications on asbestos materials, the following:

34-GP-9a Pipe; Asbestos-Cement, Sewer (Revised & Reissued)

This can be obtained from the National Research Council, Ottawa, Canada for 5c per copy.

They have amended Specification 34-GP-11 Pipe; Asbestos-Cement, Flue, (Amendment No. 1).

(See page 24 of January 1951 "ASBESTOS" for the list of Specifications issued by the Canadian Government Specifications Board on Asbestos-Cement Materials.)

W. E. SINCLAIR

W. E. Sinclair, M.I.M.M., is leaving Johannesburg shortly on a professional visit to East Africa in the interests of a London Group and will be away for several weeks. His address during November will be c/o Standard Bank of S.A., Nairobi, Kenya.

PABCO PRODUCTS, INC.
Third Quarter Report

The report of Pabco for the three months ending September 30, 1951, shows Net Sales of $9,754,152 compared with $10,208,590 for the corresponding period in 1950; Net profit for the period was $639,121 compared with $745,689 for 1950, or 41c per share for the 1951 period and 49c per share for 1950, after provisions for Preferred Dividends.

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Page 1
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Rev. 7-48

Read the instructions on page 2 of this form.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, AND CIRCULATION REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946 (Title 39, United States Code, Section 233)

Of "ASBESTOS" (Insert exact title of publication) published monthly (State exact frequency of issue)

at Philadelphia, Pa. (Name of post office and State where publication has second-class entry) for October, 1951

1. The names and addresses of the publisher, editor, managing editor, and business managers are:

	Name	Address
Publisher	Secretarial Service	808 Western Saving Fund Bldg., Phila. 7,
Editor	A. S. Rossiter	Blue Bell, Montg. Co., Pa.
Managing editor	A. S. Rossiter	Blue Bell, Montg. Co., Pa.
Business manager	(A. S. Rossiter (E. E. Cox	Blue Bell, Montg. Co., Pa. 4807 Chester Ave., Phila. 43, Pa.

2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)

Name	Address
Estate of C. J. Stover	1912 Lambert Road, Jenkintown, Pa

3. The known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)

Name	Address
None	

4. Paragraphs 2 and 3 include, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting; also the statements in the two paragraphs show the affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner.

5. The average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required from daily, weekly, semiweekly, and triweekly newspapers only.) _____

A. S. Rossiter
(Signature of editor, business manager.)

Sworn to and subscribed before me this 18th day of September, 1951

(SEAL)

Clarence Wrigley

(My commission expires April 22, 1955)

10—15710-4

Do any of our readers know of an asbestos fibre o an asbestos product by the name "Sindanyo"? We hav an inquiry for a material by this name and the word means nothing to us at all.

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Group No. 1 (Crude No. 1)	$1,100.00 to $1,500.0
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Group No. 3 (Spinning Fibre)	275.00 to 450.0
Group No. 4 (Shingle Fibre)	135.00 to 151.0
Group No. 5 (Paper Fibre)	95.00 to 119.0
Group No. 6 (Waste, Stucco or Plaster)	70.0
Group No. 7 (Refuse or Shorts)	32.00 to 63.0
Vermont—	
	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville V
Group No. 3 (Spinning & Filtering)	$279.50 to $302.0
Group No. 4 (Shingle Fibre)	135.00 to 162.0
Group No. 5 (Paper Fibre)	81.50 to 115.0
Group No. 6 (Waste, Stucco or Plaster)	.... 71.4
Group No. 7 (Refuse or Shorts)	34.00 to 63.0

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the commercial & Financial Chronicle. No guarantee as to their correctness)

		October 1951		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	39	43¾	39½
Amer. Br. Shoe (Pfd)	100	105	112	106
Armst. Ck. (Com)	np	50½	58	52½
Armst. Ck. (Pfd)	np	93½	95	95
Armst. Ck. (Conv. Pfd)	np	110	117½	113
Asb. Corp. (Com)	np	65⅛	69⅞	66¾
Asb. Mfg. Co. (Com)	1	1⅜	1⅜	1⅜
Carey (Com)	10	17¾	18⅝	18⅛
Celotex (Com)	np	17¾	20⅜	18½
Celotex (Pfd)	20	16½	17⅞	17½
Certainteed (Com)	1	16⅛	18¼	16⅝
Flintkote (Com)	np	30	33¾	30⅜
Flintkote (Pfd)	np	93	99	98
Johns-Manville (Com)	np	61¼	69½	69½
Pabco Products (Com)	np	17⅛	19¼	17½
Pabco Products (Pfd)	100	95	96½	96½
Ray-Man (Com)	np	40¼	45¼	41½
Ruberoid (Com)	np	58½	63	58⅞
Thermoid (Com)	1	10⅝	11⅝	11½
Thermoid (Pfd)	50	44	46½	44⅜
Union Asb. & Rub. (Com)	5	13⅝	15½	13⅞
United Asb. (Com)	1	$4.05	$5.15	$4.8
U. S. Gypsum (Com)	20	113½	119½	115
U. S. Gypsum (Pfd)	100	168	178	169
U. S. Rubber (Com)	10	69⅜	79⅞	74⅞
U. S. Rubber (Pfd)	100	135¼	148½	140½

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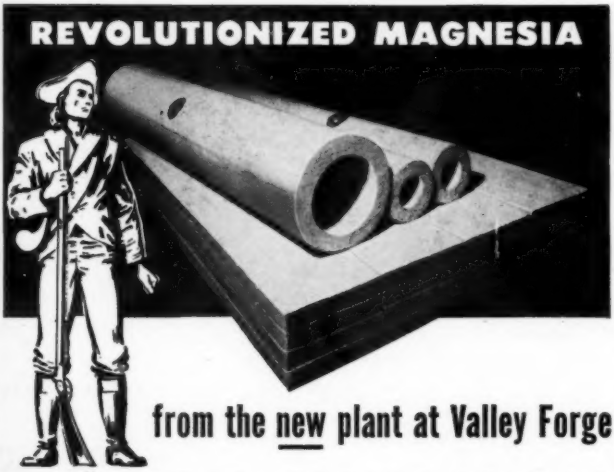

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